Flintkote

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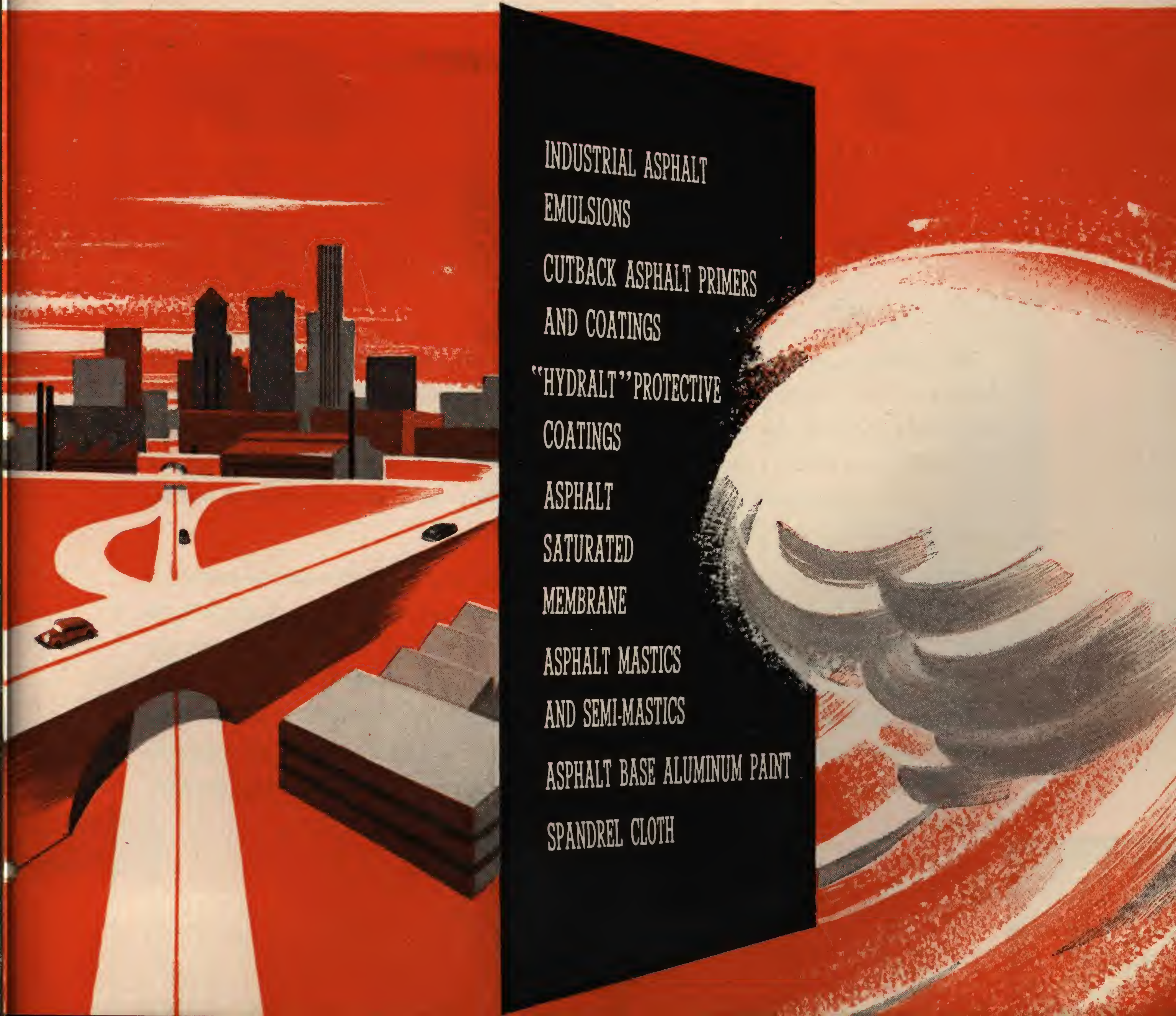
PRODUCTS FOR WATERPROOFING AND DAMPPROOFING



- INDUSTRIAL ASPHALT EMULSIONS
- CUTBACK ASPHALT PRIMERS AND COATINGS
- "HYDRALT" PROTECTIVE COATINGS
- ASPHALT SATURATED MEMBRANE
- ASPHALT MASTICS AND SEMI-MASTICS
- ASPHALT BASE ALUMINUM PAINT
- SPANDREL CLOTH

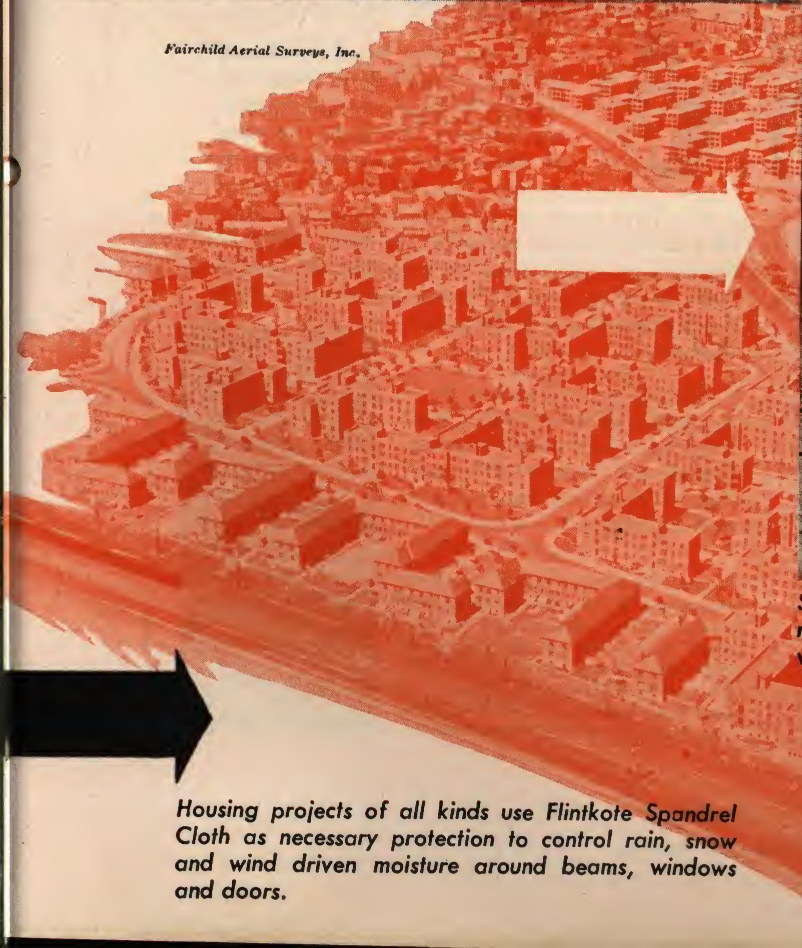
specific products designed for meeting water and dampness control problems

■ The Flintkote Company has been in existence for 48 years. During that time it has developed through consistent research and a wide technical service provided for its customers a line of water and weather resistant products. These products are designed to give the most efficient protection to metal tanks and structures, masonry foundations and walls, insulation materials, pipe lines and the like which are affected by water, weather, moisture vapor, smoke and ordinary acid fumes.

■ Flintkote "Protection" is synonymous with the *control* of water infiltration and moisture penetration into porous materials as well as with the resistance to weather and its effects upon both masonry and steel. Nearly five decades of roofing and protective coating experience have gained an enviable reputation for Flintkote products. Today, The Flintkote Company is one of the world's largest, if not the largest, manufacturers of mineral colloid types of asphalt emulsion coatings, to name one of the hundred or more products. By test and experience these coatings *will outlast any other form of bituminous coatings exposed to weather.*

Masonry stadia are often protected with Flintkote's weather resistant coatings to control water seepage and infiltration of moisture.

Concrete grain silos resist weather better with Hydralt Protective Coatings, after which they may be given a light reflective surface with Flintkote Aluminum Paint.



Fairchild Aerial Surveys, Inc.

Structural concrete walls and footings below grade need surface applied water resistant coatings, often with membrane to reinforce them.

Housing projects of all kinds use Flintkote Spandrel Cloth as necessary protection to control rain, snow and wind driven moisture around beams, windows and doors.

FLINTKOTE
INDUSTRIAL PRODUCTS

Flintkote Industrial Asphalt Emulsions and Cutback Asphalts

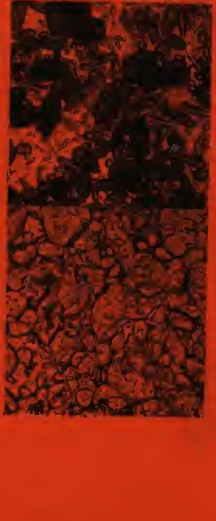
▶ The discriminating owner and builder must distinguish between the various types of asphalt and other bitumens which have been used through the ages as protective coatings over less resistant materials.

Hydralt* Protective Coatings and other Flintkote Asphalt Emulsions have fundamental advantages over asphalts reduced to fluid in a solvent and asphalts rendered fluid by the application of heat. They are made from selected asphalts, often blends of several, finely divided and dispersed in water by means of an emulsifying agent. Two advantages are these: first, highly ductile asphalts are selected because of their durability when exposed to weathering and, second, they may be used without heat or fear of fire.

A further and even greater advantage is that the dried films of these asphalt emulsions having a mineral colloid emulsifying agent do not sag, run or flow when subjected to the highest temperatures. Nor will they craze, crack or "alligator" under long exposure as will most types of solvent or hot asphalt coatings. The film remains elastic and smooth, resisting oxidation for many years when applied in the proper thickness. Samples of Flintkote Hydralt Protective Coating on steel have withstood continuous outdoor exposure in northern climate for as long as 19 years with no perceptible disintegration of surface film or evident rusting of the steel which it protects.

On the other hand, there are instances where weathering is a secondary factor, as in dustproofing masonry for good bonding of bituminous coatings and in coating the interior of exterior walls above grade to resist penetration of dampness through porous masonry. For these purposes Flintkote provides solvent type asphalt cutbacks of both painting and troweling consistency, each made according to proven specifications.

It is suggested that, in view of the many complicated problems involved, a Flintkote representative be consulted on the selection of materials for the particular project.



Hydralt Protective Coating under the microscope. This is a thin film of mineral colloid asphalt emulsion magnified 300 times. Above, the wet film at time of application. Below, the dried film with the asphalt washed out by means of a solvent to show the interlocking reinforcement formed by the mineral colloid.

**Hydralt is the brand name for Flintkote Industrial Asphalt Emulsion Coatings of the stable, non-flowing, non-staining, mineral colloid type.*
**Reg. U. S. Pat. Off.*

Product	Description	Recommended Uses
FLINTKOTE ASPHALT PRIMER	A thin penetrating cutback asphalt primer.	To dustproof and prepare masonry surfaces for the application of asphalt coatings.
FLINTKOTE CUTBACK NO. 211	A non-fibrated, highly flexible liquid asphalt.	For brush or spray application to interior of exterior walls (above grade) and to exterior walls (below grade) under minimum dampness conditions.
FLINTKOTE SEMI-MASTIC NO. 214	A fibrated cutback asphalt for brush application only.	For interior of exterior walls (above grade) to provide intermediate film thickness. Also suitable for control of water on exterior masonry walls below grade.
FLINTKOTE TROWEL MASTIC	A heavily fibrated cutback asphalt for trowel application only.	For interior of exterior walls (above grade) under severe conditions where heavy film thickness is desirable. Also suitable for control of water on exterior masonry walls below grade.
FLINTKOTE HYDRALT* PROTECTIVE COATING —TYPE C-13-E —TYPE NO. 76	Non-fibrated Industrial Asphalt Emulsion, especially formulated to resist water and dampness. Apply at temperatures over 40 degrees F.	For spray or brush application to interior of exterior walls (above grade). Assures excellent bond in presence of dampness in the walls at times of application. Also suitable for protecting steel against corrosion in excessively damp or wet locations and for control of water on exterior walls below grade.
FLINTKOTE HYDRALT PROTECTIVE COATING —TYPE C-13-A	A fibrated Industrial Asphalt Emulsion. Apply at temperatures over 40 degrees F.	For trowel application as a protection course to resist abrasion, over water proofing coatings below grade and over insulation materials.
FLINTKOTE MOPPING ASPHALT	A highly ductile asphalt for hot application.	For hot mopping all types of membrane materials in waterproofing work.
FLINTKOTE NO. 70 EMULSION	A stable, quick-setting soap type emulsified asphalt. Dries to a tacky finish.	For use on surfaces not exposed to weather such as covered masonry walls and interior steel. Applied by spray or brush.
FLINTKOTE ASPHALT SATURATED MEMBRANE	An open mesh, asphalt saturated cotton membrane, 36 in. wide, in rolls, 50 lineal yards. Also made in narrow widths.	For use as reinforcing membrane combined with hot asphalt or asphalt emulsions. One or more plies are used for maximum protection, depending upon conditions.
FLINTKOTE SPANDREL CLOTH	A cotton membrane treated to prevent mildew attack and rotting, coated both sides with flexible asphalt coating. Tough and durable, finished weight 40 oz. per sq. yd.	For spandrel beam treatment in control of water seepage through walls and around door and window headings.

*Reg. U. S. Pat. Off

GENERAL DISCUSSION—Waterproofing and dampproofing are processes which depend for their success upon a clear understanding of the problems involved. Above ground and below grade conditions may be vastly different. Well drained soil and a temperate climate will present a simpler problem than poorly drained, heavy soil, where hydrostatic pressures exist or where excessive rainfall or high humidities are commonplace. Quality materials correctly applied by experienced contractors in accordance with approved specifications drawn for the conditions encountered will provide assured protection. But they will not overcome defects in the structure itself. The length of time that a seal or coating remains intact and provides a continuous barrier is the life of the process.

PREPARATION OF SURFACES—The surface to be coated shall be free from sharp rock projections, nails, wire, etc., or anything that prevents coating with a continuous film. Holes, joints and cracks shall be pointed up, door and window frames caulked and surfaces cleaned of dust, dirt, scale and loose particles.

COATING EXTERIOR OF WALLS (below grade)—(1) Use of membrane to reinforce the coating on areas subject to wet ground conditions. Apply a coat of Flintkote Asphalt Primer to cleaned wall at the rate of 1 gallon per 100 sq. ft. and allow to dry. Follow with Flintkote Mopping Asphalt, applied hot, into which is embedded Flintkote Asphalt Saturated Membrane in the following manner:

Specifications

FLINTKOTE PRODUCTS FOR PROTECTION AGAINST WATER AND DAMPNESS

The first strip shall be of half width; the second of full width; lapped completely over the first sheet; and the third and each succeeding strip shall be full width and lapped half width so that there will be two layers of fabric at all points with head laps not less than 2 inches wide. All end laps shall be at least 12 inches. The entire surface then shall be given a final mopping of hot asphalt. Under no circumstances shall one layer of fabric touch another at any point, or show on the surface. There must be at least three complete moppings of asphalt for 2-ply membrane waterproofing.

An alternate for intermediate conditions is to prime the wall with Flintkote Asphalt Primer, allow it to dry, and then apply 1 ply of Flintkote Asphalt Saturated Membrane, lapped at least 4 inches, and embedded in hot applied Flintkote Mopping Asphalt.

(NOTE: For excessive hydrostatic pressure or unusual conditions, additional plies of membrane may be required.)

(2) For moderate exposure and intermittent contact with water. Apply Flintkote HYDRALT* Protective Coating C-13-E or No. 76—preferably in two coats to a total film thickness of not less than 3 gallons per 100 sq. ft. For ease of application, this Industrial Asphalt Emulsion may be diluted slightly with clean, cool water. The coating may be applied by brush or spray and shall extend beyond the bottom of the wall over a concrete or mastic cove built at the juncture of the wall and footing. Backfill carefully to avoid damage to the coating. If subject to abrasion, use fibrated Flintkote Hydralt Protective Coating Mastic—Type C-13-A—applied by trowel over the Flintkote Hydralt Protective Coating—C-13-E or No. 76—to build up film thickness. Strips of Flintkote Asphalt Saturated Membrane should be embedded between the two applications of protective coating over construction joints, cracks or other points of weakness.

PROTECTION COURSE—Cement mortar, brick set in hot asphalt mastic, asphalt plank, insulation board or asphalt mastic should be provided over exterior waterproofing of all types below grade where backfilled. For special conditions involving free running water, acid or alkaline solutions, apply to The Flintkote Company for detailed instructions.

COATING EXTERIOR OF WALLS (above grade)—For wall sealing and control of water and dampness apply a coating of Flintkote Hydralt Protective Coating—C-13-E or No. 76—preferably in two coats to a total film thickness of not less than 3 gallons per 100 sq. ft. The first coat of 1 gallon per 100 sq. ft. may be diluted with approximately 5% of cool, clean water to serve as the priming coat. After drying, this is followed by application of the second coat of 2 gallons per 100 sq. ft. Light reflectivity may be achieved by the further application of Flintkote (asphalt base) Aluminum Paint. ▼

◄ **COATING THE INTERIOR OF EXTERIOR WALLS** (above grade)—For resistance to dampness apply a coat of Flintkote Trowel Mastic to the cleaned wall, in and around all chases, grooves or slots, around all columns and other projections and following all breaks in walls, turned out 12 inches on ceiling and floor arch. This coating shall be at least ⅛ inch thick when dry—covering capacity 12 sq. ft. per gallon. (NOTE: If troweling is impractical, apply two coats of Flintkote Semi-Mastic No. 214 by brush at the rate of not less than 1 gallon per 80 sq. ft. each coat.)

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*T. M. Reg. U. S. Pat. Off.

Flintkote Membrane and Spandrel Cloth

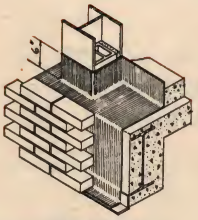
Two products which are highly important in building adequate protection against water and dampness into structures of all kinds are Flintkote Asphalt Saturated Membrane and Flintkote Spandrel Cloth.

Asphalt Saturated Membrane serves to reinforce either hot or cold applied coatings. It is an open mesh, asphalt saturated cotton membrane having high tensile strength. Placed in successive plies, each coated with water resistant asphalt, it builds up a tough durable barrier which is effective as long as the covering remains intact.

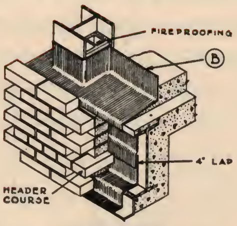
Flintkote Spandrel Cloth is cotton membrane coated both sides with flexible, high ductility asphalt. Too much emphasis cannot be placed upon the importance of including it in the design. It forms a continuous sheet to stop water at spandrel beams, lintels, window heads and sills. It is manufactured to give tough, durable rot-proof service. Embedded and coated with Flintkote Trowel Mastic, Flintkote Spandrel Cloth will give waterproofing protection at these critical points. Complete specifications will be furnished upon request.

THE FLINTKOTE COMPANY • Industrial Products Division
30 Rockefeller Plaza, New York 20, N. Y.

Details of Installation



·ISOMETRIC·
CONTINUOUS WATER STOP



·ISOMETRIC·
CLOTH APPLIED DIRECTLY TO BEAM

The Industrial Products Division of The Flintkote Company maintains a staff of engineers and technical field representatives whose services are available without obligation for consultation in preparing specifications and in developing job techniques. Call or write the nearest office.

FLINTKOTE products for Industry

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BOSTON (16), 925 Park Square Building
CHICAGO HEIGHTS, 17th Street and Wentworth Avenue
DETROIT (27), 14201 Schaefer Highway
NEW ORLEANS (4), Poland and Galvez Streets
WASHINGTON (6), 1917 Eye St., N.W.
PIONEER DIVISION—THE FLINTKOTE COMPANY, LOS ANGELES (54), 55th and Alameda Streets

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